GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA

UNSTARRED QUESTION NO:2827
ANSWERED ON:09.08.2001
REJUVENATION TECHNOLOGY FOR MANGO
UMMAREDDY VENKATESWARLU

Will the Minister of AGRICULTURE be pleased to state:

(a) whether ICAR has come out with a new rejuvenation technology for mango trees to improve productivity;

(b) if so, the details thereof;

(c) whether ICAR has already propagated this technology in mango growing areas; and

(d) if so, the other concrete steps the ICAR proposed to be taken to improve mango production during 2000-2001?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (DR. DEBENDRA PRADHAN)

(a) Yes, Sir.

(b) The Central Institute for Sub-tropical Horticulture (CISH), Lucknow, an ICAR Institute has developed the rejuvenation technology fo mango trees to improve productivity. The Institute has standardized the pruning techniquefor rejuvenation of old mango trees. The rejuvenation work has been taken up on the most important mango variety Dashehari of North India. It consists of severe heading back of main branches at a height of 4 to 5 metres from the ground during December of alternate rows trees. The cut ends are pasted with copper oxychloride paste followed by application of fertilizers (2.5 kg urea, 3 kg single super phosphate and 2.5 kg. Muriate of Potash) Half of the urea and full dose of super phosphate and potash are applied in the tree basin during March and remaining half dose of urea along with 100 kg. well decomposed FYM per pruned tree are applied in the month of July.Thinning of emerged shoots and control of stem borer need to be done during following monsoon.

Fruit yield was higher in 4th and 5th order pruned trees than the control. No fruit yield was obtained in 1st and 2nd order pruned trees during 1st and 2nd year of fruiting, but yield was obtained in an increasing trend in subsequent years. It is indicated that 4th order pruned trees gave the highest yield. Pruning of 4th and 5th order branch has been recommended for rejuvenation of old mango orchards. In the 3rd and 4th year the other alternate rows trees need to be pruned in the same way to induce healthy canopy so that it gives quality production for 20-25 years.

(c) Yes, Sir.

(d) The following steps have been taken by ICAR to improve mango production in 2000-2001.

i) A promising mango clone `Dashehari-51` has been identified at CISH, Lucknow.It is a regular bearing clone which yield 30-40 per cent higher than normal Dashehari.

ii) Soil application of paclobutrazol @ 3.2 ml per meter tree canopy diameter during September induces off year bearing.

iii) High/medium density planting and integrated pest management techniques are disseminated/demonstrated for improving mango productivity.